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Newspapers and periodicals as indicated.

SUPERSONIC MICROSCOPE, VIBROGRAPH AMONG NEW PRECISION INSTRUMENTS

SUPERSONIC MICROSCOPE PENETRATES ANY MEDIUM -- Ogonek, No 15, 1 Apr 50

The possibility of seeing 3 arshines through the earth (an arshine is 71.12 centimeters) has been translated from the realm of fancy to actual experience. Professor S. Ya. Sokolov of Leningrad has designed a supersonic microscope which works independently of the medium surrounding the object under examination. It may be transparent or opaque. The microscope is based on the principle of supersonic "illumination" of the object. Impressions can be magnified up to a thousandfold.

The microscope can be used for studying flaws and the heterogeneous composition of the medium, as well as small-size objects.

VIEROGRAPH RECORDS FUNCTIONS OF LIVING ORGANISMS -- Pravda Ukrainy, 16 May 50

The Moscow Machine Inscitute has begun output of a new electromechanical instrument, the Vibrograph. It registers the vibrations of railroad bridges, the working conditions of seam-welding, and the functions of living organisms. The first group of these instruments has been sent to scientific research institutes and to other enterprises throughout the country.

FLUCROGRAPH MAKES 60 X-RAY PICTURES PER HOUR -- Vechernyaya Moskva, 19 May 50

An apparatus of the most recent type, a fluorograph, has been installed in the X-ray office of Polyclinic No 31 on Leningrad Shosse. With this machine, 60 X-ray photographs can be made per hour. The camera makes the pictures without interruption, imprinting them upon a miniature band of photographic film. Not more than five or six photographs can be made per hour on the ordinary apparatus.

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The fluorograph is very simple to use. A photograph produced with it is many times less expensive than the ordinary X-ray picture. The Chief Roent-genologist of the Moscow City Health Department has made the following statement:

Twenty fluorographs have been received for medical-prophylactic institutions in the capital. They are being installed in polyclinics and dispensaries. Their use will permit polyclinics in the rayons to make early diagnoses and prevent the development of diseases.

BLIND TO READ WITH NEW PHOTOPHONE -- Sovetskaya Kirgiziya, 19 May 50

Two Kirgiz inventors have finished working out the basic plan for a photophone. The instrument has a special photoelectric shaft. If this is drawn slowly along the printed line, every letter is reflected by the lens in the photoelement, and causes a change in the electric current. Special sounds for each letter are set up in the membrane. This type of alphabet will make it possible for blind people to read books printed in the usual way.

There are great possibilities for the photophone. If books are published with a special sound inscription, the photophone will make it possible to hear ordinary human speech.

Final work on the instrument has been included in the plans of the Leningrad State University imeni A. A. Zhdanov.

PRODUCE FIRST SOVIET BRAILLE TYPEWRITERS -- Ogonek, No 25, 7 Jun 50

Up to now, typewriters for the blind have not been produced. However, the very first model, developed by two Soviet designers, surpasses the well-known foreign types. It has only six keys, whose combined strokes are sufficient for rapidly pricking on the paper all the Braille symbols used by the blind. The machine is of a completely new type, constructed of a light and durable material. It facilitates and simplifies the process of writing. For the first time the possibility of printing on both sides of the page has t en realized. None of the foreign models can do this.

The Typewriter and Cash Register Plant of the Kuybyshevskiy Rayon Industries Trust of Moscow has begun production of the first 100 of these portable typewriters for the blind. In 1950, more than 1,000 machines will be produced. -- E. Arkov

PRODUCE NEW AGRONOMICAL EQUIPMENT -- Sovetskaya Kirgiziya, 24 May 50

New agrotechnical and agrochemical instruments for analyzing soils and field conditions have been worked out and produced by the laboratory of the All-Union Chemical Society imeni Mendeleev. The first 100 agrochemical field laboratories have been put out. They are intended for agronomists at kolkhozes, sovkhozes, and MTS.

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